

**Anti-MIF Antibody**  
**Catalog # ABO10538****Specification**

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**Anti-MIF Antibody - Product Information**

Application	<b>WB, IHC-P</b>
Primary Accession	<a href="#">P14174</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for Macrophage migration inhibitory factor(MIF) detection. Tested with WB,IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MIF Antibody - Additional Information**

**Gene ID** 4282

**Other Names**

Macrophage migration inhibitory factor, MIF, 5.3.2.1, Glycosylation-inhibiting factor, GIF, L-dopachrome isomerase, L-dopachrome tautomerase, 5.3.3.12, Phenylpyruvate tautomerase, MIF, GLIF, MMIF

**Calculated MW**

12476 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Secreted. Cytoplasm. Does not have a cleavable signal sequence and is secreted via a specialized, non- classical pathway. Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens.

**Protein Name**

Macrophage migration inhibitory factor(MIF)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human MIF(98-115aa NYYDMNAAANVGWNNSTFA), different from the related rat and mouse sequences by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the MIF family.

**Anti-MIF Antibody - Protein Information**

**Name** MIF {ECO:0000303|PubMed:2552447, ECO:0000312|HGNC:HGNC:7097}

**Function**

Pro-inflammatory cytokine involved in the innate immune response to bacterial pathogens (PubMed:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense (PubMed:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). Counteracts the anti-inflammatory activity of glucocorticoids (PubMed:<a href="http://www.uniprot.org/citations/15908412" target="\_blank">15908412</a>, PubMed:<a href="http://www.uniprot.org/citations/17443469" target="\_blank">17443469</a>, PubMed:<a href="http://www.uniprot.org/citations/23776208" target="\_blank">23776208</a>). Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known (PubMed:<a href="http://www.uniprot.org/citations/11439086" target="\_blank">11439086</a>, PubMed:<a href="http://www.uniprot.org/citations/17526494" target="\_blank">17526494</a>). It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity (PubMed:<a href="http://www.uniprot.org/citations/11439086" target="\_blank">11439086</a>, PubMed:<a href="http://www.uniprot.org/citations/17526494" target="\_blank">17526494</a>).

**Cellular Location**

Secreted. Cytoplasm. Note=Does not have a cleavable signal sequence and is secreted via a specialized, non-classical pathway Secreted by macrophages upon stimulation by bacterial lipopolysaccharide (LPS), or by M.tuberculosis antigens

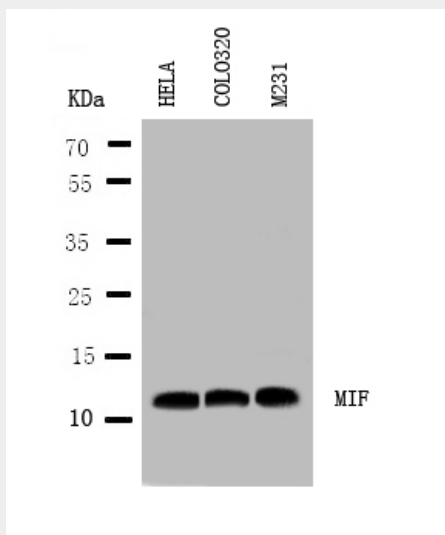
**Anti-MIF Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-MIF Antibody - Images



Anti-MIF antibody, ABO10538, Western blotting  
Lane 1: HELA Cell Lysate  
Lane 2: COLO320 Cell Lysate  
Lane 3: MM231 Cell Lysate

#### Anti-MIF Antibody - Background

Macrophage migration inhibitory factor, MIF, is a cytokine released by T-lymphocytes, macrophages, and the pituitary gland that serves to integrate peripheral and central inflammatory responses. MIF gene has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb. Localization of the human gene for macrophage migration inhibitory factor(MIF) to chromosome 22q11.2 MIF plays a critical role in inflammatory diseases and atherogenesis.